

# Sri Datta Budaraju

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## EDUCATION

- **KTH Royal Institute of Technology** Stockholm, Sweden  
*Master of Science in Computer Science; Track: Machine Learning* Aug. 2018 - Present
- **Amrita Vishwa Vidyapeetham** Coimbatore, India  
*Bachelor of Technology, Computer Science; GPA: 8.77* Aug. 2015 - July 2018
- **FIITJEE** Hyderabad, India  
*Upper Secondary; Grade: A - 95.5%* June. 2013 - June 2015

## EXPERIENCE

- **KTH Formula Student** Stockholm, Sweden  
*Driverless F1 - Perception Team Lead* Oct. 2018 - Present
  - **Data Collection for Lidar:** Setup tracks for our F1 car using color-coded traffic cones and used Velodyne VLP 16 to collect lidar point clouds
  - **Object detection:** Working on squeeze net inspired Deep learning models and clustering techniques to detect cones in the environment in real-time
- **GeeksforGeeks** Coimbatore, India  
*Campus Ambassador* Aug. 2017 - Aug. 2018
  - **Workshops:** Organized hands-on workshops for students and trained around 200 fellow students in Android development. Collaborated with the best of them on an official application for the university.
- **Amrita Multidimensional Data Analysis Lab** Coimbatore, India  
*Research Assistant - Collaborated with Dr. Vidhya Balasubramanian, Ph.D., UCI* March 2017 - March 2018
  - **WiFi Experiments:** Setting up an environment with 8 WiFi routers and 8 BLE beacons in the university building and studied the WiFi patterns in complex indoor environments and analyzed the trends in 2.4 and 5GHz.
  - **Localization Algorithms:** Used multi-point triangulation techniques with Dynamic Circle Expansion and Weighted Dynamic Circle Expansion.
  - **Deployment:** Deployed the algorithms on android to scan the dual band and BLE signals. This android app then displays the estimated pinpoint location on a scaled map

## CERTIFICATIONS

- **DeepLearning.ai Specialization by Andrew NG:** Neural Networks and Deep Learning, Improving Deep Neural Networks, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models

## PROJECTS

- **Accident Anticipation using Deep Learning:** Python, Keras, Google Colabs April 2018 - July 2018  
Real-time accident detection in video feeds using Hierarchical Recurrent Neural Networks with LSTM cells. Trained on hand sampled clips from YouTube. Part of my bachelor thesis.
- **Safe Rider - Drive Assistant:** Java, Android Studio, Google Maps APIs, Firebase Oct. 2017 - Jan. 2018  
Road safety application which warns users of road hazards in real-time. Detects hazards using onboard IMU sensors and Crowd-Sources the data to alert other users. Built the whole working application during a 24-hour hackathon.
- **Twitter'e'con - Live Sentiment Analysis:** Python, NLTK, Sci-Kit, Tweepy, TKinter Sept. 2017 - Oct. 2017  
Sentimental Analysis tool to analyze real-time trends of keywords in Twitter. Classified live tweets from twitter API using ensemble modeling and implemented live graphical visualizations.
- **Indoor Localization and Navigation:** Python, Java, Android Studio April 2017 - Sept. 2017  
Indoor position system that localizes users using dual-band WiFi routers and Low Energy Bluetooth Beacons without any manual fingerprinting of the environment.

## PROGRAMMING SKILLS

- **Languages:** Python, Java, C, MATLAB, SQL
- **Libraries:** OpenCV, Keras, Pandas, TensorFlow, NLTK
- **Computing platform:** Android, Arduino, Colabs, Firebase, ROS, RPi, Ubuntu, Windows

## PUBLICATION

- **An Inventive and Innovative alternative for legacy chain pulling system through Internet Of Things** - Budaraju Sri Datta, Rama Ganapathy, Sini Raj P, Shriram K Vasudevan, Abhishek SN  
Indonesian Journal Of Electrical Engineering And Computer Science, 6(3), 688-694. May 2017

## ACCOLADES

- **Hack For India:** 1st in a 24 hours hackathon by Internet and Mobile Association of India Sept. 2017
- **Amrita TBI:** Top 30 of 480 national teams - Indias most reputed Technology Business Incubator May 2017